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**[ABSTRACT]**

In accordance with the present invention a radiation image  
5 storage panel comprises a self-supporting or supported layer of  
storage phosphor particles dispersed in a binding medium and,  
adjacent thereto, a protective coating characterized in that,  
besides a binder, the said protective coating comprises a white  
pigment having a refractive index of more than 1.6, which is present  
10 in the said binder, preferably further comprising a urethane  
acrylate, and wherein said protective coating has a surface  
roughness (Rz) between 2 and 10  $\mu\text{m}$ .

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